



Portable Winch Co.

PORTABLE CAPSTAN WINCH™
PCW5000

USER MANUAL



Model: PCW5000
Maximum pulling capacity (single line): 1000 kg (2200 lb)

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Introduction

Portable Winch Co. wishes to thank you for purchasing a PCW5000 *Portable Winch*TM. This manual was written to help you make the best use of your new winch and to use it in the most secure way. **Read it carefully before using the winch.** For any problems or questions you may have, please refer to an authorized Portable Winch Co. dealer or contact us directly.


1.0 Safety guidelines

The PCW5000 *Portable Winch*TM is designed to pull **non-rolling objects**, usually at plus or minus 45 degree angle from the horizontal.

The use of a pulling device implies serious risks of injuries, property damage or even death. **Do not underestimate its potential danger.**

1.1 Safety messages

Your safety and the safety of others are very important. You will find important safety messages in this manual. **Read them carefully.**

These security messages are warning you of potential injuries to either you or others. Every safety message is preceded by a warning symbol  and one of the following terms: DANGER, ATTENTION or PRECAUTION.

These indicator words mean:










 **DANGER** You WILL be MORTALLY or SEVERELY INJURED if you do not follow these instructions.

 **WARNING** You COULD be MORTALLY or SEVERELY INJURED if you do not follow these instructions.

 **CAUTION** You COULD be INJURED if you do not follow these instructions.

1.2 Labels

The warning and guaranteed sound power level labels are positioned on the right side of the winch housing.

  LIRE MANUEL READ MANUAL	 LOW STRETCH ROPE CORDE À FAIBLE ELASTICITE FORCE DE RUPTURE MIN. : MIN. BREAKING FORCE: 2300 kg Ø ≥ MIN. 10 mm ≤ MAX. 16 mm	 	 	 L_{WA}  105 dB CE
PORTABLE WINCH CO. 1 888 388-PULL (7855) www.portablewinch.com				
1170, Thomas-Tremblay Sherbrooke QC J1G 5G5 CANADA	Modèle / Model: PCW5000 Force de tire : Pulling force: 1136 kg Vitesse de treuillage : Winching speed: 12 m/min	No. de série : Serial number: Année de fabrication : Year manufactured: 2009	<p>Guaranteed sound power level is 105 dBA.</p> <p>We recommend wearing hearing protection when using the Portable Winch.</p>	
<p>Read this instruction manual and the Honda engine user's manual prior to using the winch.</p>	<p>Only use low-stretch rope. Minimum diameter: 10 mm (3/8") Maximum diameter: 16 mm (5/8").</p>	<p>Never place your hands near the drum while the engine is running.</p>	<p>Never use the winch for lifting people.</p>	

1.3 Safety information

Do not let children use the *Portable Winch*TM. Keep children and animals away from the work area.

⚠ WARNING Never let someone without training use the *Portable Winch*TM. Make sure the user knows about the safety and usage procedures and has read this manual and the HondaTM engine user manual.

⚠ WARNING Inform all users of the safety guidelines and usage procedures.

⚠ WARNING Familiarize yourself with the product and the safety guidelines before working with the winch.

⚠ WARNING Make sure that your clothes are not going to get caught into the winch mobile parts.

⚠ DANGER The exhaust gas contains toxic carbon monoxide. Never run the engine in a closed area without proper ventilation.

⚠ CAUTION Replace any safety labels that are damaged, illegible or missing.

⚠ WARNING Never put your hands on the capstan drum or near the rope guide when the engine is running.

⚠ WARNING Always keep bystanders outside the working area.

⚠ DANGER Never pull rolling objects that might roll out of your control.

⚠ WARNING The *Portable Winch™* is not intended for lifting purposes.

⚠ WARNING Never use the *Portable Winch™* to lift people.

2.0 Before first use

2.1 Upon receiving the winch

Inspect the box to detect any apparent damage. If there is damage or missing parts, inform the carrier immediately.

2.2 Is the engine ready to work?

2.2.1 Engine oil

Fill the Honda™ engine with a maximum of 0.25 liter of SAE 10W-30 API SJ oil. For special usage or conditions such as extreme weather, refer to page 7 of the Honda™ engine user manual. Check the oil level on a horizontal surface. The oil level should be up to the edge of the opening.

2.2.2 Gas

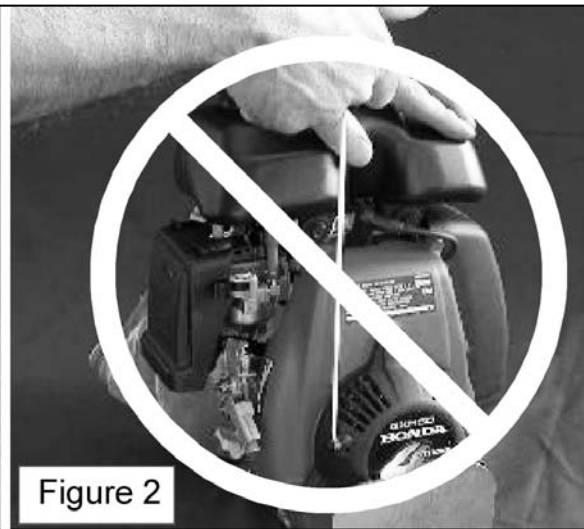
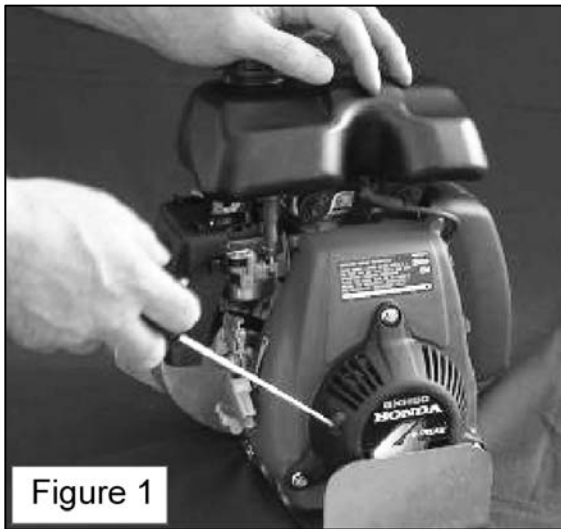
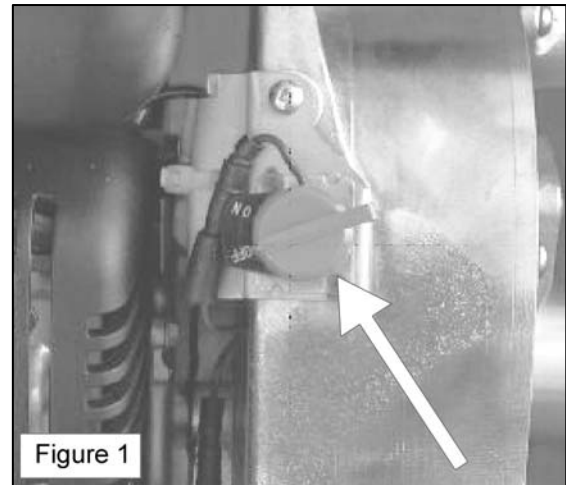
Fill the gas tank with **unleaded fuel**. Do not use oil/fuel mixture; your *Portable Winch™* is equipped with a 4-stroke engine. Refer to page 7 of the Honda™ engine user manual.

2.2.3 Engine start-up

Refer to page 3 of the Honda™ engine user manual for start-up instructions.

The engine on-off switch is located on the winch housing, to the left of the handle (figure 1 to the right).

Make sure to pull on the recoil starter in the axis of the rope outlet (figure 1 below). If you pull vertically (figure 2), the friction of the rope on the plastic cover might damage the rope and the cover.



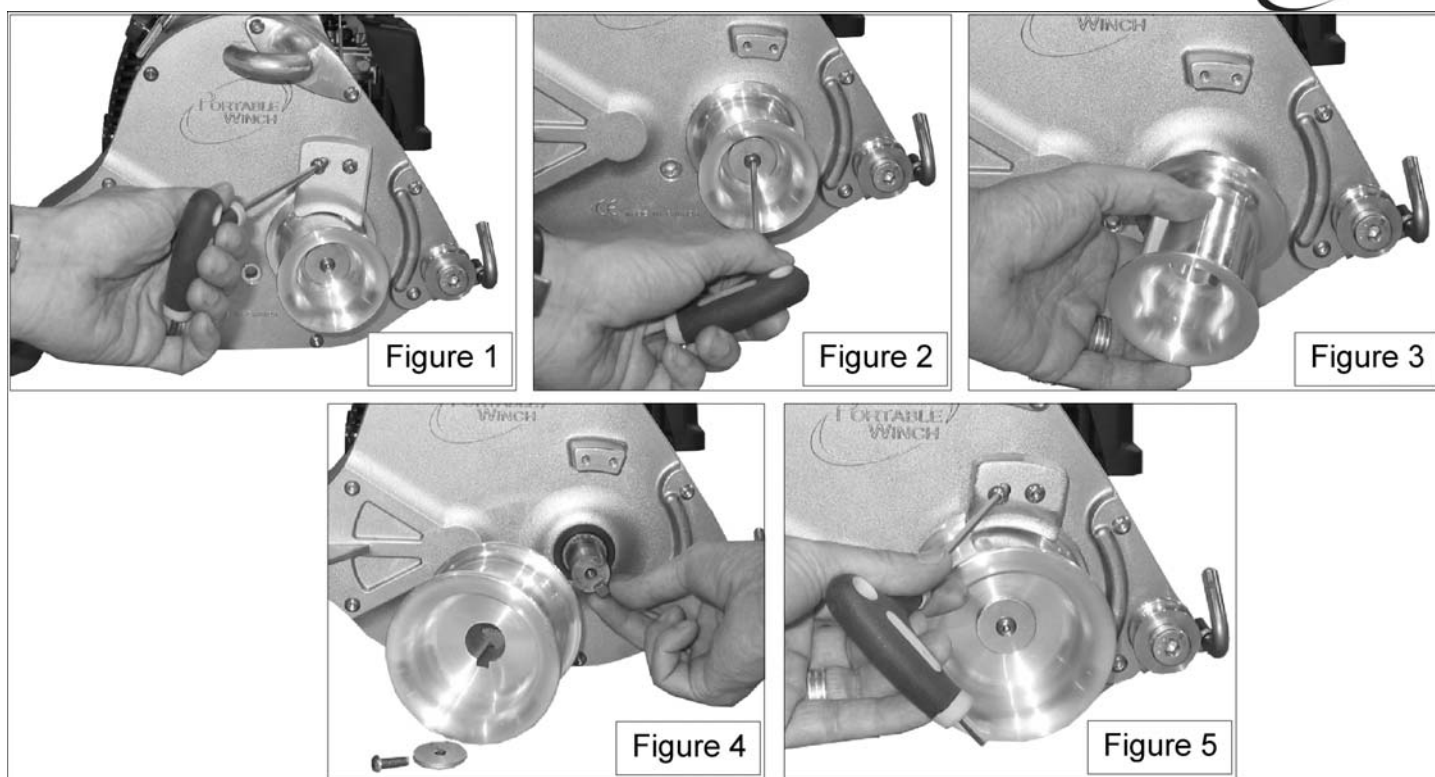
2.2.4 Capstan drum

Your *Portable Winch™* is equipped with a standard 57 mm (2-1/4") diameter capstan drum.

If you are using the optional 85 mm (3-3/8") drum (PCA-1100 (not included)), follow these simple installation steps (figures 1, 2, 3, 4 & 5 can be found on the next page). All bolts require a 4 mm (5/32") hex wrench, included with your winch manual.

- 1) Remove the rope guide (figure 1);
- 2) Remove the bolt located at the end of the drum axle (figure 2);
- 3) Remove the drum from the axle (figure 3). If necessary, you may push it forward with two screwdrivers;
- 4) Replace it with the optional drum (figure 4). Make sure that the shaft key stays in place. Install bolt and washer;
- 5) Install the rope guide (included with the optional drum) using the two (2) bolts.

NOTE: Make sure that the rope guide is not in contact with the capstan drum.



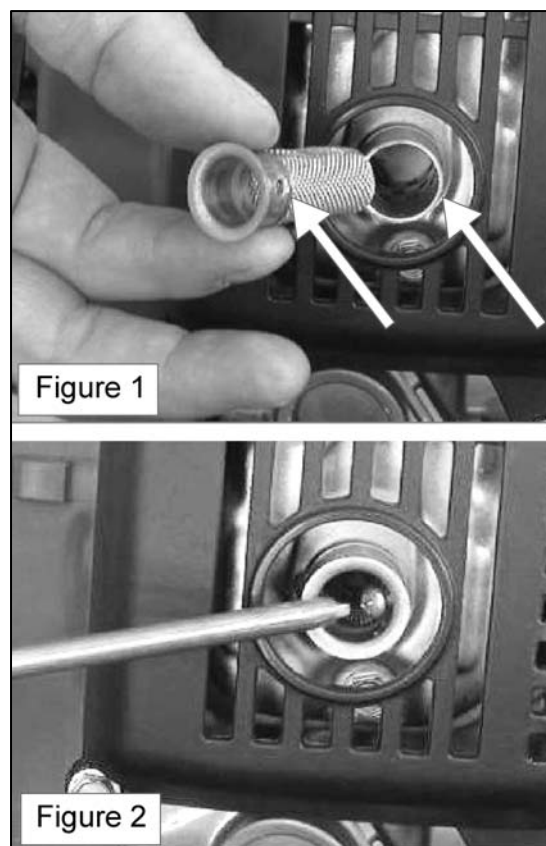
2.2.5 Spark arrestor

In certain areas, it is forbidden to use a gas engine without a spark arrestor. Check local regulations. An optional spark arrestor is available from Portable Winch Co. and Honda™ Power Products dealers.

Installation:

- 1) Insert the spark arrestor into the exhaust tube. Make sure the holes are aligned (figure 1 to the right).
- 2) Fasten lightly the metal screw provided with a Philips #1 screwdriver (figure 2 to the right).

Refer to page 10 of the Honda™ engine user manual for the spark arrestor cleaning instructions.



3.0 Winch usage

⚠ WARNING Most winching situations present **POTENTIAL DANGERS!**

3.1 Rope

⚠ WARNING Stay out of the winch line's path.

3.1.1 Rope type

Use only **low stretch** rope. We recommend using double-braided polyester rope with a minimum diameter of 10 mm (3/8"). Maximum rope diameter is 16 mm (5/8"). For most situations, we recommend using 12 or 13 mm (1/2") DBP rope. Please contact us for other rope types suitability.

⚠ WARNING **DO NOT USE 3-STRAND POLYPROPYLENE YELLOW ROPE!**

- Polypropylene and polyethylene ropes are dangerous for winching because of their great elasticity and low melt point.
- Make sure the rope is not damaged and that it offers an adequate resistance to pull the load.

⚠ WARNING **STRETCH EQUALS DANGER!**

- A stretched rope can recoil and cause serious burns as the rope leaves your hand.
- All ropes stretch: a longer one more than a shorter one. The more you pull, the more it stretches.
- A stretched rope can also move the load in an unpredictable or dangerous way.
- A stretched rope can recoil and bring your hand towards the winch causing severe injuries. **NEVER WRAP THE ROPE AROUND YOUR HAND.**

⚠ CAUTION Always wear **GLOVES**.

3.1.2 Rope maintenance

⚠ CAUTION Visually inspect your rope before each usage. If it shows any sign of deterioration (cut strands, excessive abrasion), replace it.

⚠ CAUTION If your rope is dirty, wash it. Dirty ropes deteriorate faster and cause premature wear of the capstan drum and rope guide.

3.2 At the end of the rope

3.2.1 Recommended knots

You have to attach the load to the end of the rope. Even if a simple knot can do the job, we recommend the installation of a hook with the bowline knot (figure 1 on the right) because it can be easily undone if you need to change the hook. Moreover, it retains about 70% of the rope's capacity while most knots will reduce it by more than 50%.

Even better, the double bowline knot (figure 2 below) will keep about 75% of your rope's capacity.

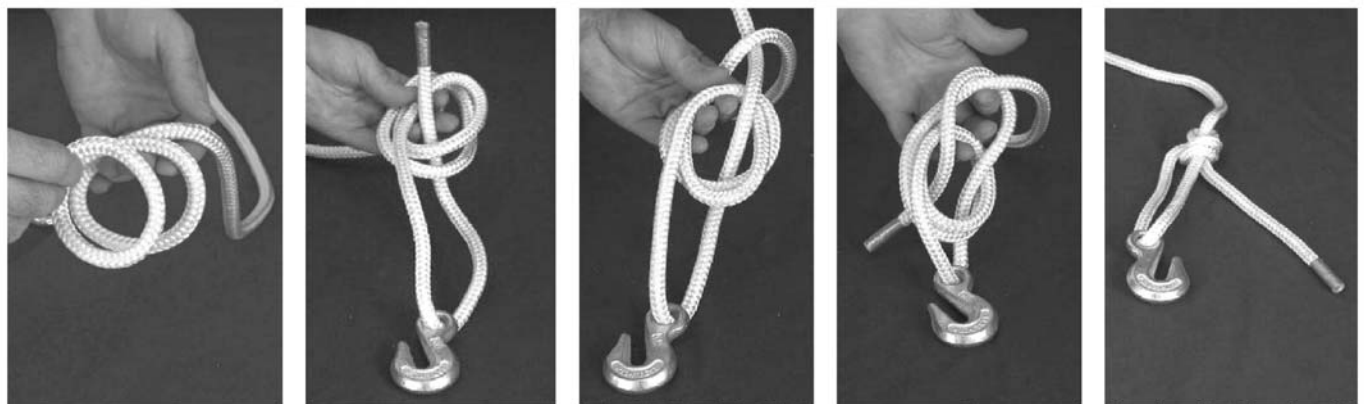
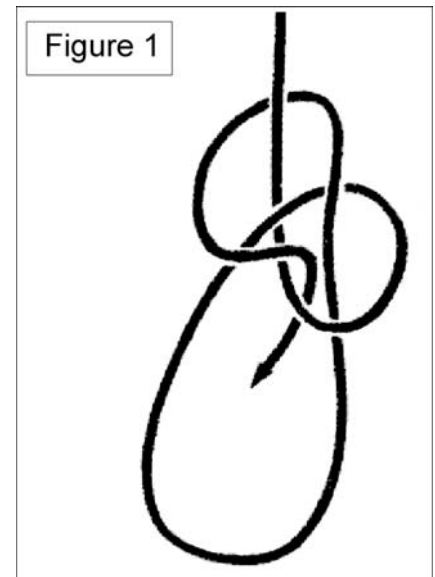
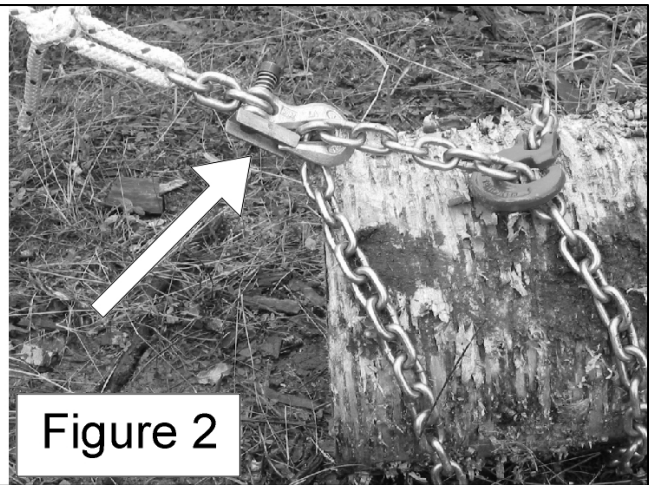
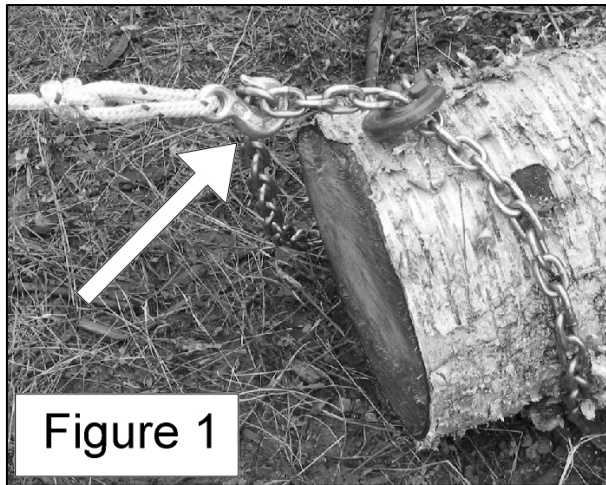


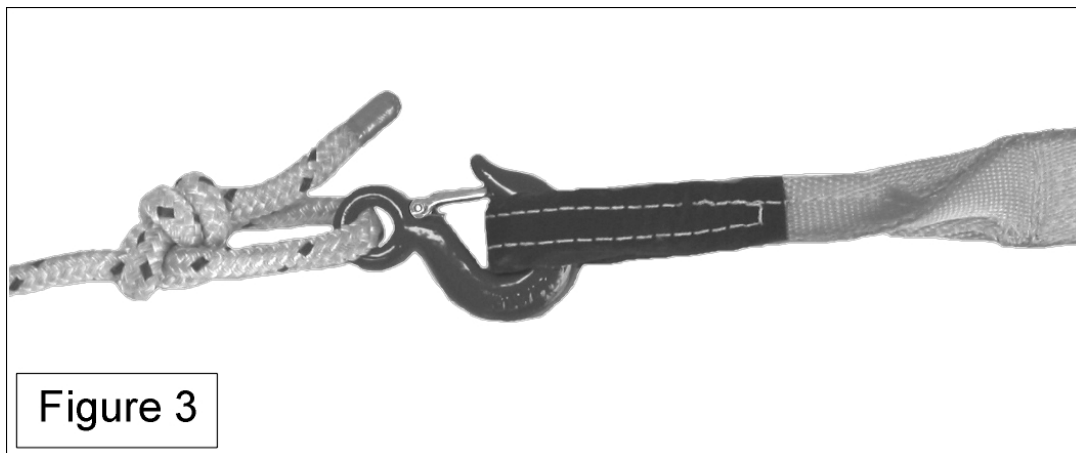
Figure 2

3.2.2 Recommended hooks

If you usually pull with a choker chain, use a grab hook (figure 1) or grab hook with latch (figure 2).



If you usually pull a sling or a ring, use a safety hook with latch (figure 3).



3.3 Winch anchor

OPTION 1: In most cases, the winch is anchored to a fixed point using the polyester sling or with optional anchoring devices and the rope end is tied to the object you want to move. The load is moving towards the winch when you pull the rope.

OPTION 2: Alternately, the winch can be anchored to the load that needs to be moved and the rope end is tied to a fixed point. The winch and the load are therefore pulled toward the fixed point where the rope end is tied. This method is useful when you need to guide the load while you operate the winch.

3.3.1 Using a polyester sling (included with the winch)

Go around the anchor point with the sling. Insert each end of the sling in one of the safety hooks located on the winch (figure 1).

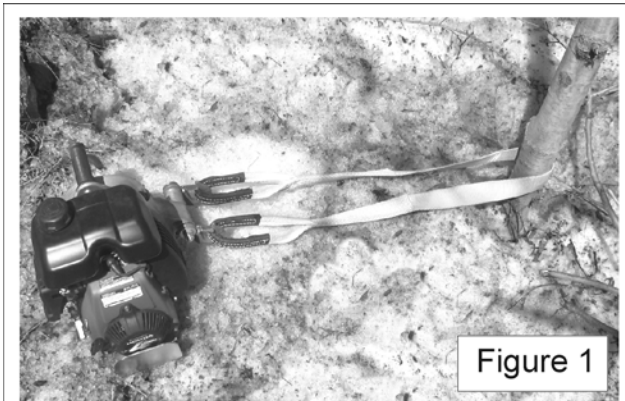


Figure 1

⚠ CAUTION

Avoid installing the sling on sharp edges that might damage it. Whether you are using a post, a tree or a stump, always install the sling near the anchor's base (figure 1).

⚠ CAUTION

Using a stump as an anchor point means paying special attention in order to prevent the sling from slipping over it.

⚠ WARNING

Make sure the anchor point is strong enough to resist the pull without breaking or being damaged.

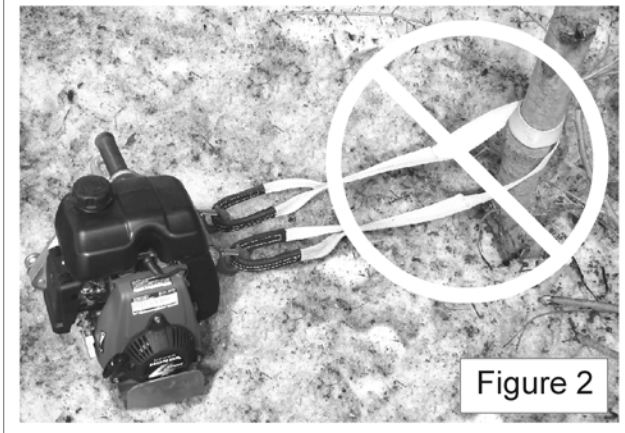


Figure 2

Position the winch in line with the load (figure 1). When the winch is under tension, it will try to align itself with the load. The friction of the sling against the anchor point could prevent correct alignment. If that is the case, release the tension on the rope and position the sling on the anchor point so that the tension is equally distributed on both winch anchor hooks.

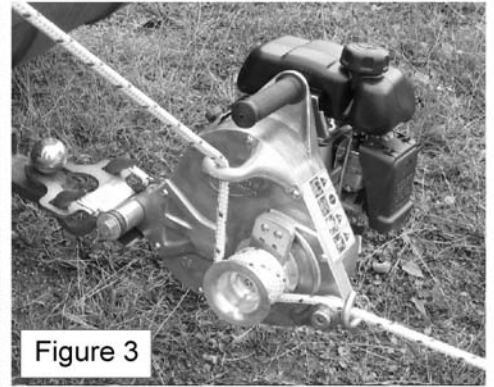
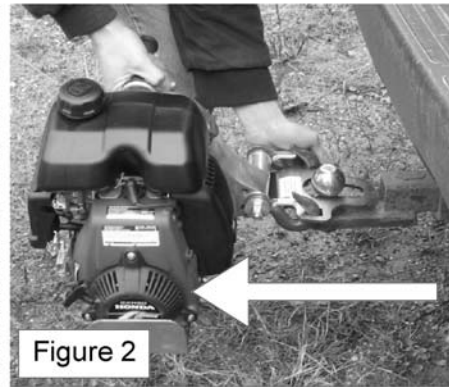
⚠ CAUTION

DON'T DO THIS! When you anchor the winch, make sure that you DO NOT do a complete wrap around the anchor point (figure 2). This set-up will prevent proper alignment of the winch with the load and will put uneven tension on the winch anchor hooks.

3.3.2 Using the Hitch Plate (PCA-1261, sold separately) with tow balls up to 50 mm (2") diameter

- 1) Push the safety hooks in the rectangular openings of the hitch plate (figure 1 next page);
- 2) Start the winch engine;
- 3) Slide the plate on the ball hitch and pull the winch forward (figure 2 next page);

- 4) Wrap the rope around the drum and start winching (figure 3).



NOTE: Do not leave the winch on the hitch with the engine running; the resting position will cause the Oil Alert™ device to turn the Honda™ engine off (see section 3.4).

CAUTION Use the hitch plate only with Category II ball hitch (1500 kg – 3500 lb) or higher.

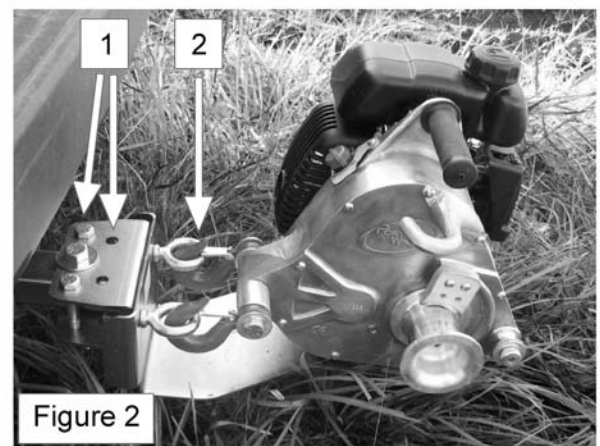
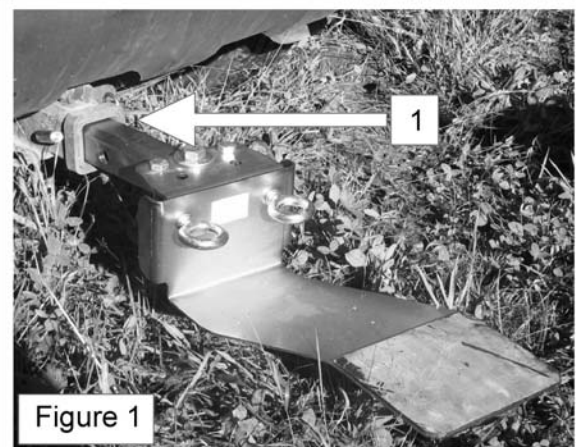
CAUTION Make sure the anchoring vehicle's hand brake is on and working properly. Position blocks behind the wheels to prevent roll back.

3.3.3 Using the Receiver Hitch winch anchor for 2" receivers (PCA-1262, sold separately)

- 1) Slide the square tubing into the vehicle's receiver and secure it with both the hitch pin and the "R" pin (figure 1, no 1).
- 2) Adjust the maximum desired lateral movement by positioning the bolts into the holes (figure 2, no 1).
- 3) Attach the winch anchor hooks to the eye bolts (figure 2, no 2).
- 4) Wrap the rope around the drum and start winching. The winch will align itself automatically with the load.

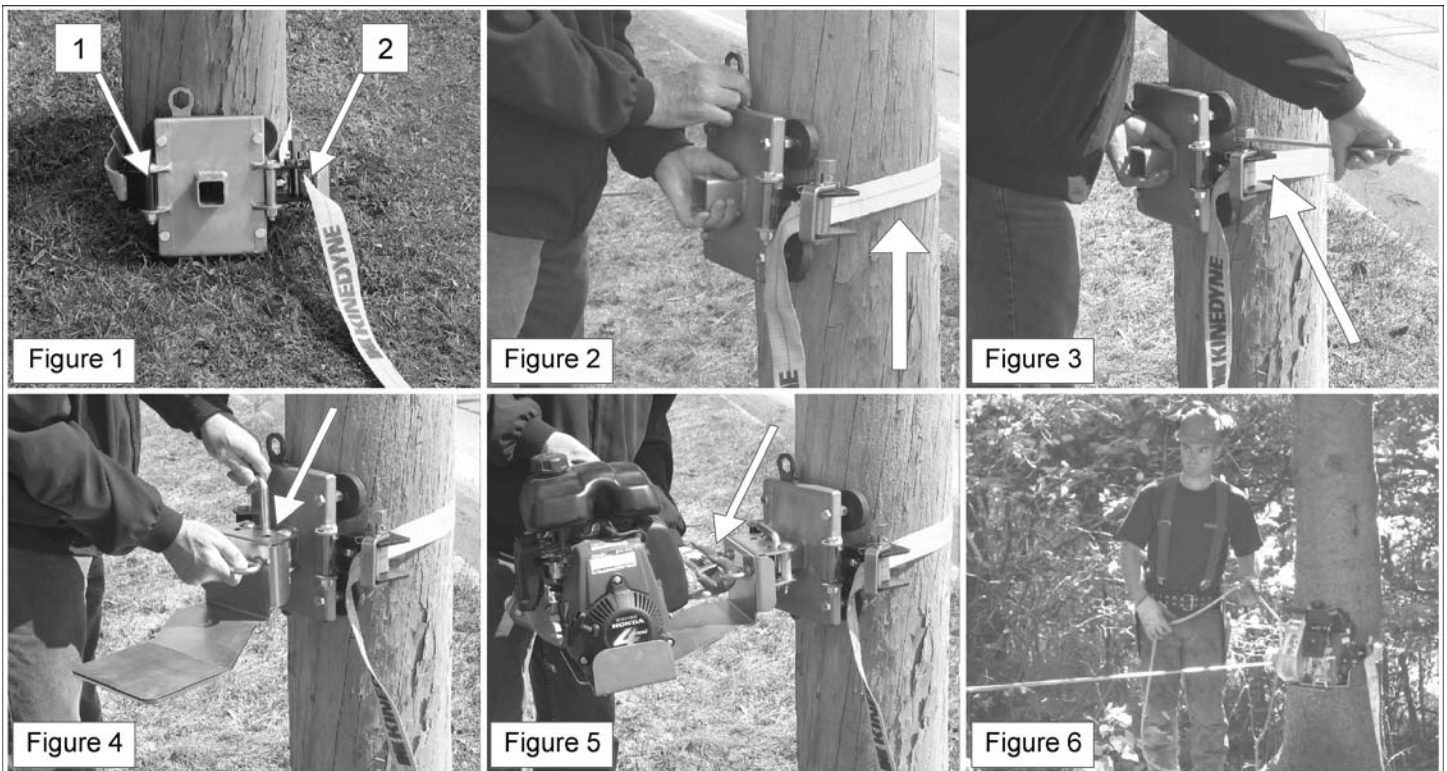
CAUTION If you need to pull downward, you will need to install either a pulley or a roller to prevent damage to the winch support plate.

CAUTION Make sure the anchoring vehicle's hand brake is on and working properly. Position blocks behind the wheels to prevent roll back.



3.3.4 Using the Tree/Pole Mount with rubber pads (PCA-1263, sold separately)

- 1) Place the tree/pole mount at the base of the tree or pole. Insert the sling's hook into the anchor point on the left (figure 1, no 1); then feed the sling's end through the ratchet system (figure 1, no 2);
- 2) Slide the whole set-up upward to the desired height (figure 2);
- 3) Tighten the sling with the wrench supplied while making sure the rubber pads are properly positioned. The pads should offer maximum contact surface with the tree or pole (figure 3);
- 4) Install the receiver hitch (without the square tubing) and fasten it with the hitch pin and "R" pin (figure 4).
- 5) Attach the winch anchor hooks to the eye bolts (figure 5);
- 6) Wrap the rope around the drum and start winching. The winch will align itself automatically with the load (figure 6).



⚠ CAUTION If you need to pull downward, you will need to install either a pulley or a roller to prevent damage to the winch support plate.

⚠ WARNING After pulling for a few seconds with the tree/pole mount, release the tension off the *Portable Winch™*. Check the solidity of the installation and tighten the sling again.

3.4 Oil Alert™ system

The GX-50 Honda™ engine is equipped with an Oil Alert™ system that automatically turns off the ignition when the oil level goes below a safe level. The Oil Alert™ system also turns off the

ignition when the winch is operating at an angle greater than 20 degrees (± 4 degrees). Make sure that your set-up keeps the winch at a relatively horizontal level while winching and idling.

3.5 Rope installation

⚠ WARNING Using common sense while installing the rope is the key to a secure winch usage.

The great variety of situations encountered when winching prevents us from providing specific instructions; however you need to consider the following points:

3.5.1 Rope

Use a low stretch rope, in good condition, with a minimum diameter of 10 mm (3/8") and a maximum diameter of 16 mm (5/8"), with good knots. We strongly suggest the bowline knot (see section 3.2.1). Use pulleys to redirect the rope and to multiply the pulling capacity when the load is near or over the pulling capacity of the winch.

3.5.2 Pulley

Using a pulley at some distance in front of the winch offers many advantages:

- pulling angle 'lifts' the load and reduces friction;
- the winch is maintained at a relatively horizontal position;
- winch and operator are away from the load's path.

3.5.3 Direction

Install the rope in such a way that it does not rub against other objects. Try to set-up the rope so that the front of the load is slightly lifted. Do not pull downwards or through an obstruction.

⚠ Generally, if the rope touches the ground while pulling, your installation is incorrect.

3.5.4 On a hill

⚠ WARNING Do not pull a load directly toward the winch in a downward slope since it could slide without you being able to stop it. In that situation, use a pulley at the bottom of the hill and position the winch outside of the load's path.

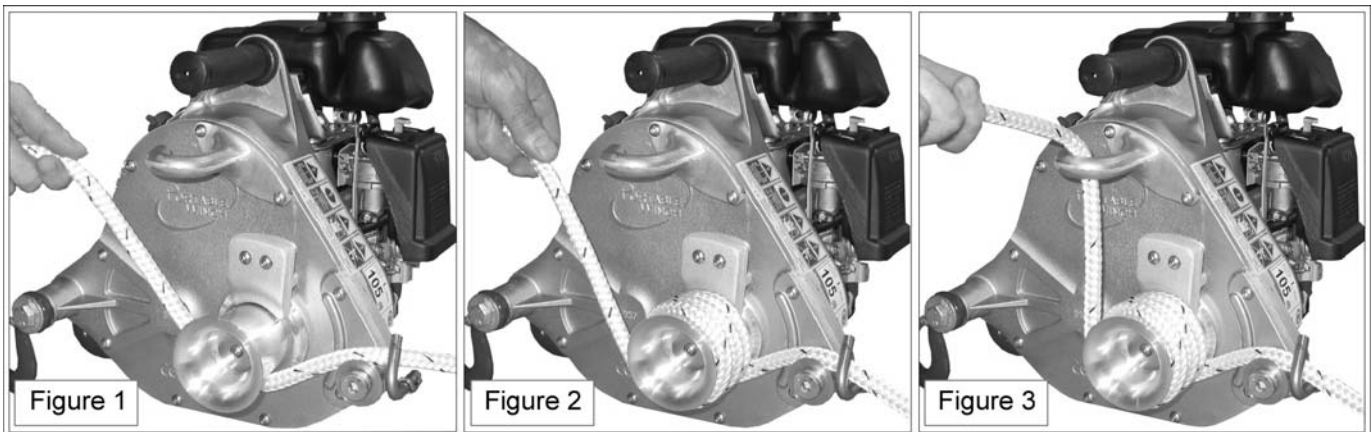
3.6 Pulling a load

⚠ WARNING Check winch position, rope condition, solidity of the anchor point and knots in order to prevent injuries or material damage.

3.6.1 Wrapping the rope on the capstan drum

⚠ WARNING NEVER put your HANDS on the CAPSTAN DRUM or the ROPE GUIDE when the ENGINE is RUNNING.

- 1) Start the engine and let it idle for 30 seconds to warm-up;
- 2) Run the rope over the rope keeper and the front pulley and under the drum (figure 1);
- 3) Wrap the rope around the drum (3 turns) (figure 2);
- 4) Bring the rope behind the rope hook (figure 3);
- 5) Stand about 1 m (3') of the winch and pull gently on the rope to get the slack until you feel the tension rising on the rope (figure 3);
- 6) Look at your set-up to make sure that the winch anchors and the front pulley are aligned with the rope;
- 7) Check that the rope does not rub against objects along the path;
- 8) Pull the throttle up and start winching.



3.6.2 Winching

While winching, position yourself away from the winch in order to see both the winch and the load. Pull on the rope. The tension you exert on the rope will keep the winch level. Do not operate with the winch tilted or the Oil Alert™ will kick in.

⚠ DANGER Do not wrap the rope around your hands or your body! Also beware of the rope accumulating in front of you; make sure your feet do not get tangled in it.

⚠ WARNING Carefully watch the capstan drum during the operation and make sure that the rope does not cross over on it. If it happens, release the tension on the rope and stop the engine while undoing the cross over.

3.6.2.1 If the rope slips:

If the rope slips on the drum while winching, add a fourth wrap of rope on the drum. When the winch reaches its maximum capacity, the engine stalls. You then have to redo your set-up (add pulleys) or “rock” the load.

3.6.2.2 To “rock” the load:

Pull the rope until the engine comes close to stalling and release the tension. Pull again on the rope to put tension and repeat as needed.

⚠ CAUTION Be careful with this method since it generates heat and can wear the rope quickly.

⚠ WARNING If the winch is pulling the rope but the load does not move (often the case when using a very long rope), it’s because your rope is stretching and could reach the breaking point and recoil towards you. **SLOWLY** release the tension on the rope but beware of the accumulated tension. You could get burned from the rope exiting your hands quickly or be pulled towards the winch.

3.6.2.3 How to pause while winching:

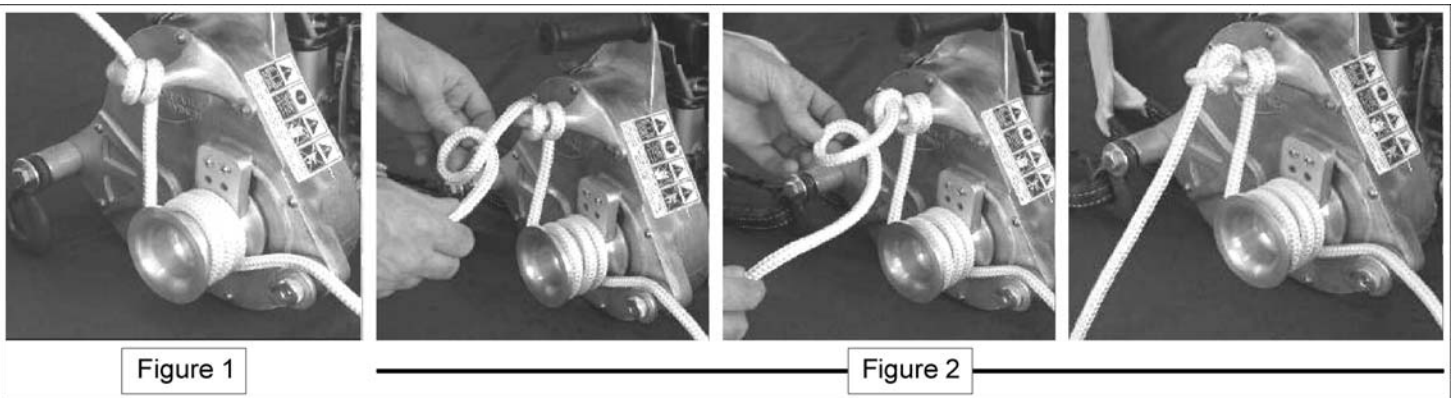
SLOWLY release the tension on the rope and let it slip on the capstan drum.

⚠ CAUTION Do not let the rope slip for more than a few seconds on the drum while in tension – the heat created by the friction could melt or damage the rope.

3.6.2.4 How to maintain a load without releasing the tension:

You may maintain tension on the end of the rope either by holding it or attaching it to a fixed object:

- 1) Shut the engine off;
- 2) Wrap the rope twice around the rope hook to relieve tension from your hands (figure 1).
- 3) Tie two half-knots around the rope hook (figure 2).



3.6.2.5 How to resume winching:

You must release some tension before restarting the winch engine. First, untie the two half-knots. Let go some of the rope to release some tension. While holding the rope with one hand, start the engine by pulling on the crank and pull the throttle up. You can now resume winching.

3.6.2.6 If you must keep tension on the rope at start-up:

You can install a rope grab device or a Prussik knot attached to your anchor point in order to keep tension on the rope.

3.6.2.7 If your rope is too short:

You will have to link two ropes together.

- 1) If you have to link two rope lengths, do it with two bowline knots (figure 1) (see section 3.2.1).
- 2) Leave about 1 m of rope tailing out of the knot on the rope holding the load (figure 1, no 1). You will need it to resume winching after undoing the knots.

⚠ WARNING Stop the winch **BEFORE** the knot reaches the small pulley since it cannot go through the winch (figure 2).

- 3) If necessary, attach the load to a fixed object and release tension off the rope.
- 4) Undo the knots and use the remaining length to wrap around the capstan.

3.6.3 Stopping the winch

- 1) Release tension gradually to lower the winch gently to the ground;
- 2) Bring throttle down to idle;
- 3) Turn ignition switch off.

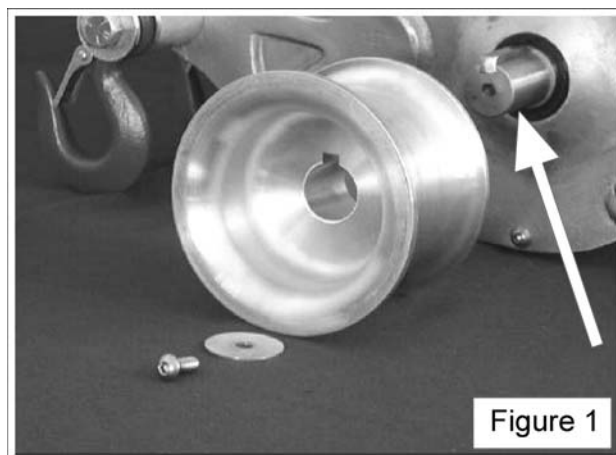
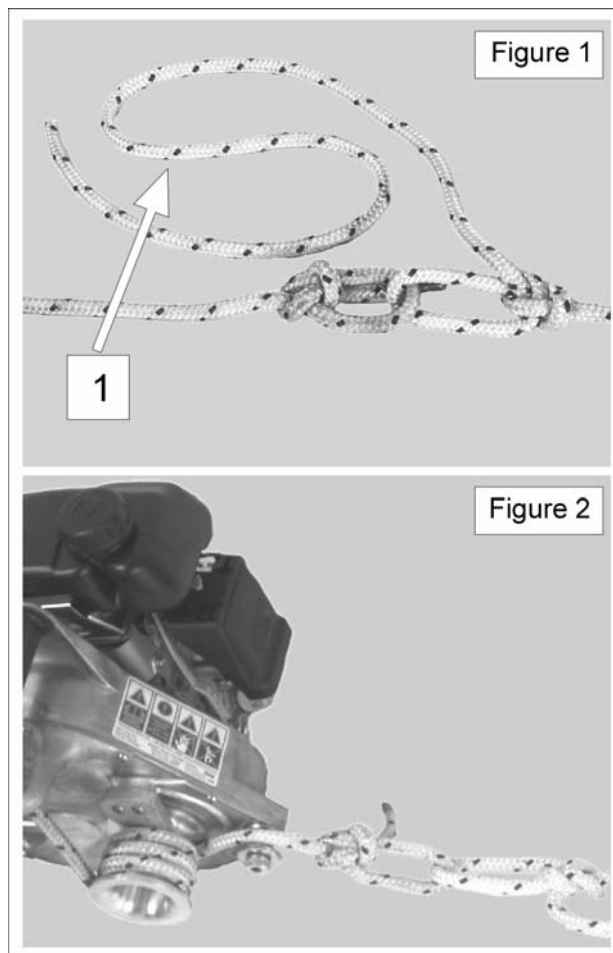
4.0 Maintenance

4.1 Cleaning

Once your job is done, you should clean and dry your winch.

⚠ CAUTION Inspect the winch, hooks, rope and polyester sling to detect any damage or signs of wear.

Periodically, remove the capstan drum and clean around the shaft (figure 1 to the right). Accumulated debris can damage the shaft seal. Apply grease or oil to prevent corrosion.

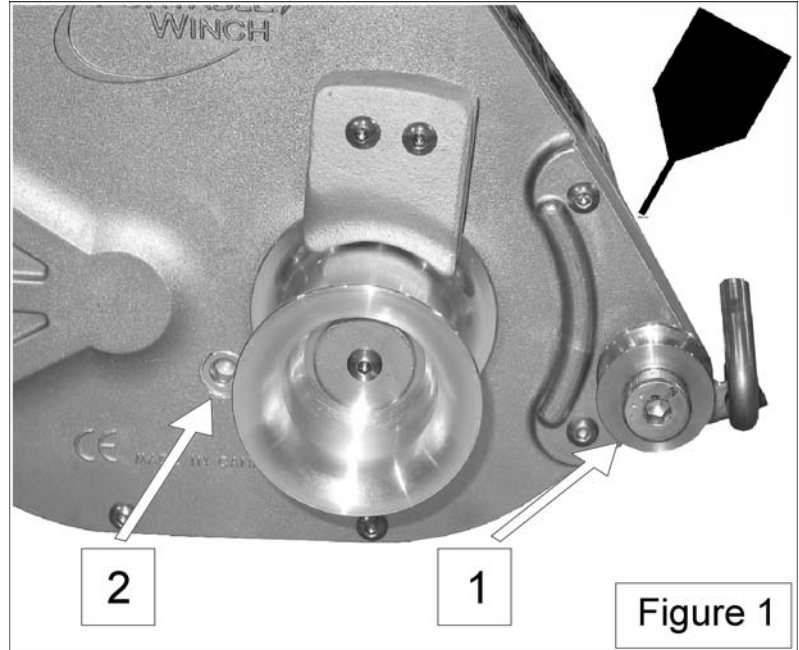


4.2 Lubrication

The front pulley (figure 1, no 1) must turn freely. Lubricate it regularly with light oil. Dirt and grime lodged between the pulley and the shaft may prevent it from turning freely. If required, disassemble it to clean the shaft.

The gearbox is lubricated at the factory and should not require additional lubrication or maintenance. If there is appearance of a leak, check oil level by placing the winch on a level surface and remove the oil plug (figure 1, no 2).

Lean it toward you; some oil should leak out of the hole. If needed, you can add type SAE80W90EP gear box oil.



4.3 Honda™ engine

Maintain the engine according to the instructions found in the Honda™ engine user manual.

4.4 Storage

Always store your *Portable Winch™* in a vertical position. Refer to the Honda™ engine user manual for engine storage instructions.

4.5 Spark arrestor

If your *Portable Winch™* is equipped with the optional spark arrestor (PCA-1151), you must clean it every hundred (100) hours to keep it running properly. Refer to the Honda™ engine user manual for cleaning instructions.

5.0 Complementary information

5.1 Accessories

A complete line of accessories is available. You will find the list on the next page. We invite you to visit our web site regularly at www.portablewinch.com for updates and new products.

PRODUCT NUMBER	DESCRIPTION
PCA-1100	Optional capstan drum (85 mm (3-3/8") diameter)
PCA-1215	Double-braided polyester rope - 3674 kg MBS (8100 lb) - 13 mm x 45,75 m (1/2" x 150')
PCA-1213	Double-braided polyester rope - 3674 kg MBS (8100 lb) - 13 mm x 91,5 m (1/2" x 300')
PCA-1216	Double-braided polyester rope - 3674 kg MBS (8100 lb) - 13 mm x 183 m (1/2" x 600')
PCA-1252	Rope bag - Medium - Holds 91,5 m (300') of 13 mm (1/2") rope with shoulder straps
PCA-1255	Rope bag - Medium - Holds 75 m (250') of 13 mm (1/2") rope
PCA-1257	Rope bag - X-Large - Holds 183 m (600') of 13 mm (1/2") rope
PCA-1258	Polyester sling - 50 mm (2") x 3,1 m (10')
PCA-1259	Polyester sling - 50 mm (2") x 2,44 m (8')
PCA-1260	Polyester sling - 50 mm (2") x 1,83 m (6')
PCA-1261	Hitch plate winch anchor - Fits towing balls up to 50 mm (2") diameter
PCA-1262	Receiver hitch winch anchor - Fits 50 mm (2") square tubing
PCA-1263	Tree/pole mount w/ rubber pads (use with PCA-1262 or PCA-1264)
PCA-1264	Vertical pull winch support (use with PCA-1263)
PCA-1271	Swing side self-blocking pulley - 1 aluminum sheave 60 mm (2-3/8") diameter
PCA-1272	Double swing side self-blocking pulley - 2 aluminum sheaves 75 mm (3") diameter
PCA-1273	Stainless steel double swing side snatch block - 2 aluminum sheaves 100 mm (4") diameter
PCA-1274	Stainless steel swing side snatch block - 1 aluminum sheave 100 mm (4") diameter
PCA-1276	Steel oval locking carabiner
PCA-1277	Shackle 16 mm (5/8") - Working load limit : 3-1/4 tons
PCA-1278	Shackle 20 mm (3/4") - Working load limit : 4-3/4 tons
PCA-1279	Shackle 13 mm (1/2") - Working load limit : 2 tons
PCA-1280	Grab Hook 7 mm (5/16")
PCA-1282	Grab Hook 7 mm (5/16") with latch and 3 chain links
PCA-1281	Safety Hook - Working load limit: 3/4 ton
PCA-1290	Skidding Cone for logs up to 50 cm (20") diameter
PCA-0340	Padded waterproof case with removable wheels for winch & accessories
PCA-1372	HPPE rope choker 9,5 mm x 2,1 m (3/8" x 7') with steel rod
PCA-1295	Choker-chain 6 mm x 2,1 m (1/4" x 7') with C-Hook and steel rod -- (Weight: 2,8 kg (6 lb))
PCA-1299	C-Hook for choker-chain
PCA-1151	Spark arrestor for Honda engine GHX-50

5.2 Warranty

Portable Winch Co. products are warranted against defects in materials and workmanship while owned by the "original purchaser" as defined below.

The "Original purchaser" is defined as the party or entity which purchases the winch and/or accessories from an authorized Portable Winch Co. retailer as shown by the original sales receipt. The warranty ownership is transferable, provided the end-user has a copy of the original purchaser's invoice. This warranty does not apply to 'wear parts' defined as being in contact with the rope while winching.

The *Portable Winch™* is covered as follow:

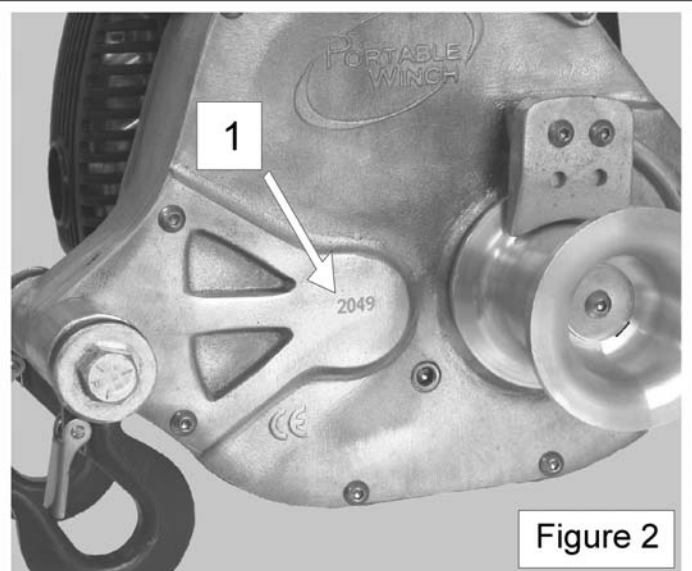
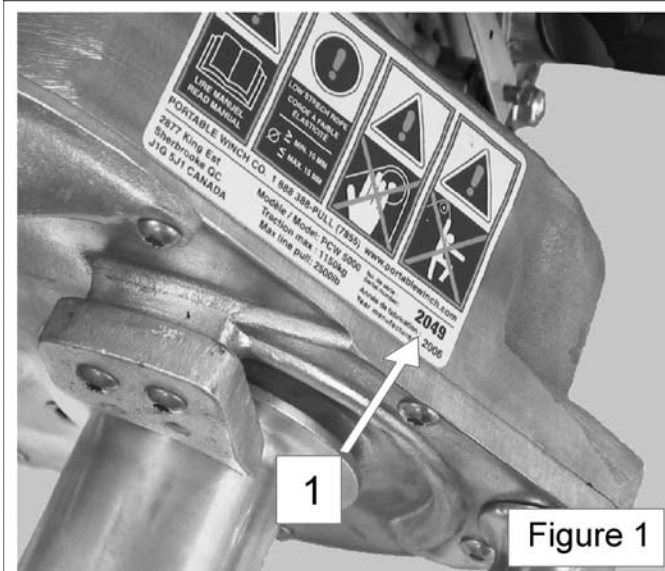
- Winch parts: Five (5) year warranty (service by Portable Winch Co. and/or its retailers);
- Engine: The Honda™ engine is warranted by Honda Motor Corporation and the duration varies according to country and usage. All Honda™ service centers can repair the winch engine under warranty. Hang on to your proof of purchase (invoice with serial number). It will be used to establish the beginning of the warranty period.

Portable Winch Co. will replace or repair, at its option, any defective product. All other *Portable Winch™* accessories are covered by a complete one (1) year warranty.

If you have a defective product, please contact us or your retailer and we will take care of it immediately.

5.3 Serial number localization

The winch serial number is indicated on the safety warning label located on the right side of the winch housing (figure 1, no 1). The serial number is also engraved on the cover of the winch, to the left of the capstan drum (figure 2, no 1).



5.4 CE Declaration of conformity



DECLARATION OF CONFORMITY

We
of

PORTABLE WINCH CO.
1170 Thomas-Tremblay St.
Sherbrooke, QC J1G 5G5
CANADA
Tel: +1 819 563-2193
www.portablewinch.com

Declare that the product

Portable Capstan Winch
Model PCW5000
Serial numbers 4603 and higher

For intended purpose

Pulling non-rolling objects at angles $\pm 45^\circ$ from
horizontal plane

In accordance with the following Directives:

89/336/CEE Electromagnetic Compatibility Directive
and its amending directives
98/37/EC Machinery Directive
and its amending directives
2000/14/EC Environmental Noise Directive

has been designed and manufactured to the following specifications:

EN 292-1 &2 1991
EN 14492-1 2006

I hereby declare that the equipment above has been designed to comply with the relevant sections of the above referenced specifications. The unit complies with all essential requirements of the directives.

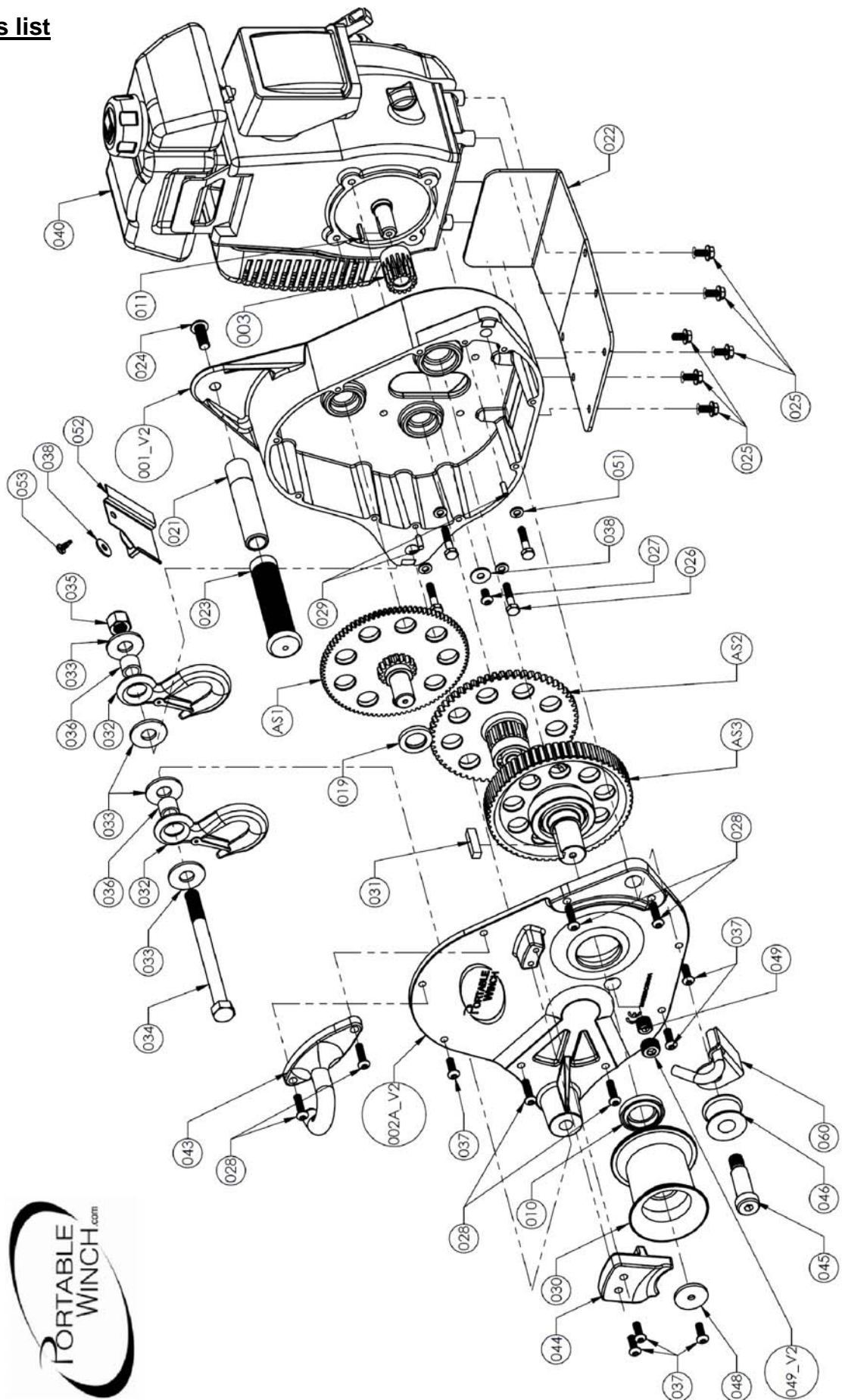
Signed by:

Name: Pierre Roy
Position: Managing Director

Done at Sherbrooke, QC, Canada
On May 10th, 2009.



5.5 Parts list



NO.	QTÉ	NUMÉRO PW	DESCRIPTION
001_V2	1	PCW5000-001_V2	Gearbox housing
002A_V2	1	PCW5000-002A_V2	Gearbox cover W/sleeve & RCB121616
003	1	PCW5000-003	Input pinion
AS1	1	PCW5000-AS1	Input Shaft Assembly
AS2	1	PCW5000-AS2	Intermediate Shaft Assembly
AS3	1	PCW5000-AS3	Output Shaft Assembly
010	1	PCW5000-010	Seal 30X42X7-CRWA1
011	1	PCW5000-011	Shaft key rect 3/16 X 1/8 X 3/4
019	1	PCW5000-019	Trust washer 3/4 X1-1/4x0.170"
021	1	PCW5000-021	Winch handle
022	1	PCW5000-022	Junction plate
023	1	PCW5000-023	Vinyl grip
024	1	PCW5000-024	Hex cap screw 3/8-24X1SS
025	6	PCW5000-025	H.F.S.C.S. M6-1X12mm ZP
026	4	PCW5000-026	Hex Cap Screw 1/4-28 X1-1/4
027	1	PCW5000-027	BH Cap screw 1/4-28 X 1/2
028	6	PCW5000-028	BH Cap screw 1/4-20 x 1" SS
029	2	PCW5000-029	Dowel Pin 3/16" x 3/4"
030	1	PCW5000-030	Capstan drum standard 2-1/4" (57 mm)
031	1	PCW5000-031	Shaft key 5/16 X 1-1/4"
032	2	PCW5000-032	Safety hook
033	4	PCW5000-033	Flat washer 1/2"-ZP
034	1	PCW5000-034	HCS 1/2-13 x 6" Zn-Gr.5
035	1	PCW5000-035	Nylon Locknut 1/2-13 – ZP
036	2	PCW5000-036	Bushing aluminum
037	6	PCW5000-037	BH Cap screw 1/4-20 x 3/4" SS
038	2	PCW5000-038	Flat washer 1/4" - ZC
040	1	PCW5000-040	Honda engine GHX50U-QXA
043	1	PCW5000-043	Rope hook
044	1	PCW5000-044	Rope guide cast-iron
045	1	PCW5000-045	Shoulder bolt 5/8-X 1-1/2 -ZP
046	1	PCW5000-046	Front brass pulley
048	1	PCW5000-048	Fender washer 1/4X1-1/4" OD-ZP
049	1	PCW5000-049	Oil plug 1/4"-ZP S/N Up to 4602
049_V2	1	PCW5000-049_V2	Oil Plug 3/8"-ZP S/N 4603 and up
051	4	PCW5000-051	Internal lock washer 1/4" - ZP
052	1	PCW5000-052	On/Off Switch w/t Support Plate
053	1	94060A242	Metal screw #10x 1/2"
060	1	PCW5000-060	Rope keeper
HEX	1	PCW5000-HEX	Hex key 4 mm

5.6 Technical data

5.6.1 Pulling force

The winch provides the following pulling forces according to the drum diameter size:

- 57mm (2-1/4") drum: 1000 kg (2200 lb)
- 85mm (3-3/8") drum: 635 kg (1400 lb)

5.6.1 Noise emissions

Here are the different noise emissions of the portable winch:

- Sound pressure level at operator position – L_{pA} (measured)
 - Engine idling: 73 dBA
 - Full throttle: 89 dBA
- Sound power level – L_{WA} (measured)
 - Engine idling: 85 dBA
 - Full throttle: 102 dBA
- Guaranteed sound power level – L_{WA} : 105 dBA

5.6 Manufacturer

The *Portable WinchTM* is manufactured by:

Portable Winch Co.

1170, Thomas-Tremblay Street
 Sherbrooke, Quebec, J1G 5G5
 CANADA

Phone: +1 819 563-2193

Toll free (Canada & USA): 1-888-388-PULL (7855)

Fax: +1 514 227-5196

Email: info@portablewinch.com

Web site: www.portablewinch.com



Notes
